

PL5223 Environment and Sustainability

Module designation	Environment and Sustainability
Semester(s) in which the module is taught	1 st Semester (first year of master program)
Person responsible for the module	Prof. Djoko S.A. Suroso Ir. Teti Armianti Argo, PhD
Language	Indonesian
Relation to curriculum	Specialisation Compulsory Course
Teaching methods	Offline/mixed, synchronized, independent and group Lectures and discussions, empirical studies / case studies, class debates, brainstorming, talk shows / panels, roundtables, guest lectures
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: around 9 hours per week x 16 weeks = 144 hours
Credit points	3 CU/ 5 ECTS
Required and recommended prerequisites for joining the module	-
Module objectives/intended learning outcomes	<ol style="list-style-type: none"> 1. Explain the scope, historical orientation, philosophy, drivers of environmental and ecological perspectives or changes for urban and regional planning 2. Analyze the processes, procedures, and outcomes of environmental change affecting planning especially developing countries, coastal areas and disaster prone areas 3. Analyze and synthesize planning issues that require interpretation from an environmental and ecological perspective 4. Critique the social and environmental implications of new planning, policy approaches to current environmental changes 5. Intervene, reflect, or promote prospective solutions in planning to environmental changes affecting society and spatial configurations
Content	<ol style="list-style-type: none"> 1. Value System in Environmentalism 2. Approaches to Understanding Environmental Problems 3. Scalability – spatial perspectives: Climate Change, Biodiversity 4. Environment and Planning (spatial planning) 5. Human interaction in nature – social Equity & Environmental justice
Examination forms	
Study and examination requirements	Knowledge (40%), Skill (30%), Attitude (30%)

Reading list	<p>Chitando, E., & Kamaara, E. (2025). African Values and Development: Rethinking Agenda 2063. Routledge.</p> <p>Paszkievicz, K., & Ruthven, A. (2025). Cinema of/for the Anthropocene: Affect, Ecology, and More-Than-Human Kinship. Routledge.</p> <p>Noll, S. (2025). Ethical Omnivores: Better Eating for Everyone. Routledge.</p> <p>Kataria, N., Garg, V. K., Han, C., & Rene, E. R. (2025). Microplastic Pollution: Occurrence, Health Risk and Challenges. Routledge.</p> <p>de Haas, M., & Giller, K. E. (2025). Pathways to African Food Security: Challenges, Threats and Opportunities towards 2050. Routledge.</p> <p>Hens, L., & Ren, J. (Eds.). (2023). Environment, Development and Sustainability. Springer. https://link.springer.com/journal/10668</p> <p>Agarwal, A. K. (Ed.). (2024). Energy, Environment, and Sustainability. Springer. https://www.springer.com/series/15901</p> <p>Sharma, S. K., Upadhyay, R. K., & Kumar, V. (Eds.). (2024). Dynamics of Transportation Ecosystem, Modeling, and Control. Springer.</p>
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